

JSON Format Manipulation Functions

Functions available from D2000 V12.2.

[JSON format](#) manipulation functions allows to create, read, write and delete JSON objects. Function names are created by the prefix `%JSON_`.

When adding invalid value (e.g. `%JSON_ObjectSetValue`), value in JSON is stored as **null**. When reading null value from JSON (e.g. `%JSON_ObjectGetValue`), value is interpreted as invalid value.

Every handle to JSON object or array must be released by calling `%JSON_FreeObjectHandle` or `%JSON_FreeArrayHandle`.

Handle remain valid also after deleting of child object or array (e.g. `%JSON_ArrayRemoveItem`) pointed to by the handle. Similarly when removed parent object or array, handle pointed to child remains valid.

Example:

```
INT _obj
INT _clientInfo
TEXT _d2version

_obj := %JSON_ObjectFromString(ModuleInfo)
_clientInfo := %JSON_ObjectGetObject(_obj, "client_data")

%JSON_FreeObjectHandle(_obj) ; release handle to _obj, _clientInfo is still valid handle

_d2version := %JSON_ObjectGetValue(_clientInfo, "d2000_version")

LOG "D2000 version", _d2version PRIORITY _LOG_PRTY_INFO

%JSON_FreeObjectHandle(_clientInfo) ; finally release _clientInfo handle
```

There is created JSON object from ModuleInfo variable, then we get value from object and this value is written into monitoring database.

`%JSON` file manipulation functions:

- [%JSON_CreateObject](#)
- [%JSON_CreateArray](#)
- [%JSON_FreeObjectHandle](#)
- [%JSON_FreeArrayHandle](#)
- [%JSON_ObjectSetValue](#)
- [%JSON_ObjectSetArray](#)
- [%JSON_ObjectSetObject](#)
- [%JSON_ArraySetValue](#)
- [%JSON_ArraySetArray](#)
- [%JSON_ArraySetObject](#)
- [%JSON_ArrayAppendValue](#)
- [%JSON_ArrayAppendArray](#)
- [%JSON_ArrayAppendObject](#)
- [%JSON_ObjectGetValue](#)
- [%JSON_ObjectGetArray](#)
- [%JSON_ObjectGetObject](#)
- [%JSON_ArrayGetValue](#)
- [%JSON_ArrayGetArray](#)
- [%JSON_ArrayGetObject](#)
- [%JSON_ObjectIsValue](#)
- [%JSON_ObjectIsArray](#)
- [%JSON_ObjectIsObject](#)
- [%JSON_ArrayIsValue](#)
- [%JSON_ArrayIsArray](#)
- [%JSON_ArrayIsObject](#)
- [%JSON_ArrayGetLength](#)
- [%JSON_ArraySetLength](#)
- [%JSON_ArrayClear](#)
- [%JSON_ArrayRemoveItem](#)
- [%JSON_ObjectGetFieldsCount](#)
- [%JSON_ObjectGetFieldName](#)
- [%JSON_ObjectHasField](#)
- [%JSON_ObjectClear](#)
- [%JSON_ObjectRemoveField](#)
- [%JSON_ObjectToString](#)
- [%JSON_ObjectFromString](#)
- [%JSON_ArrayToString](#)
- [%JSON_ArrayFromString](#)



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[ESL extended functions](#)